

ties for R&D performers that undoubtedly will continue to re-define the R&D enterprise into the future.

Each of these developments creates further challenges in terms of data measurement and indicator improvement. Indeed, there are a number of specific areas of interest that could benefit from expanded data collections and analyses (National Research Council, 2000). Most notably, better information is needed on structural changes in industrial R&D (including research on the nature of R&D in the service sector and obtaining finer detail by industrial classification and geographic location). More extensive data could improve our understanding of the relationship between R&D and innovation to address the manner in which science and technology are transferred among firms and transformed into new processes and products. Fuller investigations and tracking of the apparent increase in the web of partnerships among firms, universities, and Federal agencies and laboratories in conducting R&D are warranted, as is more research on the extent and role of multidisciplinary research in science and engineering. Both of these latter topics, research that involves multiple partners and multiple fields, illustrate directly the growing complexities that characterize the R&D enterprise.

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